

on Blue mountains, near the Lehigh gap, destroying much valuable timber.

Less extensive fires were reported, as follows:—

Alexandria, Dakota, 12th, 17th, 24th.

Fort Meade, Dakota, 13th, 14th, 17th.

Fort Yates, Dakota, 8th.

Yankton, Dakota, 7th, 8th, 10th, 12th to 15th, 19th, 24th, 25th.

Humboldt, Iowa, 17th, 24th, 29th, 30th, 31st.

Oreswell, Kansas, 6th, 10th, 11th, 18th, 19th, 22d.

Fort Riley, Kansas, 19th, 20th.

Olay Centre, Kansas, 1st.

Independence, Kansas, 1st, 2d, 3d to 23d, 26th, 27th, 30th.

Yates Centre, Kansas, 9th to 12th.

Crete, Nebraska, 8th, 10th, 13th.

North Platte, Nebraska, 24th.

Omaha, Nebraska, 17th.

Portland, Oregon, 21st.

Chattanooga, Tennessee, 1st, 4th, 5th.

Coleman City, Texas, 2d, 6th, 7th, 11th.

Indianola, Texas, 3d.

Wytheville, Virginia, mountain fires, 1st.

#### DROUGHT.

Cape Mendocino, California, 13th.—Along the coast, north and south of this place, the prevalent fogs have prevented the grass from drying up, but further inland the fields are scorched and rain is greatly needed. 18th.—Great alarm is felt among farmers concerning the probable failure of crops, owing to the prolonged drought. Notwithstanding the dews and heavy fogs its effects are felt in this vicinity.

Visalia, California, 31st.—The recent rains have proved of great benefit to agricultural interests. Vegetation has made rapid progress during the past few days, and the prospects are favorable for a good crop.

Bangor, Maine, 31st.—The mills in this locality are shut down on account of low water.

#### MIGRATION OF BIRDS.

*Geese flying northward.*—Point Judith, Rhode Island, 13th, 14th, 15th, 17th, 18th, 20th; Portland, Maine, 31st; Augusta, Georgia, 1st, 5th; Palestine, Texas, 2d, 4th, 5th, 11th, 17th; Denison, Texas, 11th, 20th; Logansport, Indiana, 8th, 16th, 17th; Oswego, New York, 26th, 27th; Toledo, Ohio, 15th; Buffalo, New York, 30th; Champaign, Illinois, 20th, 23d, 26th, 30th; Keokuk, Iowa, 4th; Omaha, Nebraska, 2d, 5th; Yuma, Arizona, 22d, 23d; Lewiston, Idaho, 28th; Spangle, Washington Territory, 6th, 9th, 11th; Portland, Oregon, 2d; Bethel, Connecticut, 19th; Morriston, Dakota, 22d; Alexandria, Dakota, 4th, 13th; Forsyth, Georgia, 19th; Elmira, Illinois, 1st; Riley, Illinois, 13th; Swanwick, Illinois, 4th; Edgington, Illinois, 1st, 2d, 9th, 12th, 18th, 21st; Monticello, Iowa, 17th; Des Moines, Iowa, 25th; Creswell, Kansas, 13th, 17th; Holton, Kansas, 5th; Independence, Kansas, 3d, 13th, 24th; Yates Centre, Kansas, 23d; Pretty Prairie, Kansas, 1st, 6th, 13th; Osawatomie, Kansas, 14th; Somerset, Massachusetts, 28th; Clear Creek, Nebraska, 1st, 5th, 22d; Crete, Nebraska, 1st; Flushing, New York, 18th; Jacksonburg, Ohio, 17th; Canal Dover, Ohio, 19th, 21st, 26th; Grampian Hills, Pennsylvania, 14th; Variety Mills, Virginia, 1st, 3d; Cedar Rapids, Iowa, 16th. *Flying southward.*—Augusta, Georgia, 3d; Toledo, Ohio, 5th; Cleveland, Ohio, 2d; Des Moines, Iowa, 6th; Riley, Illinois, 29th; Edgington, Illinois, 14th; Humboldt, Iowa, 18th; Creswell, Kansas, 8th, 13th; Clay Centre, Kansas, 12th; Wytheville, Virginia, 1st. *Flying eastward.*—Umatilla, Oregon, 29th; Edgington, Illinois, 21st.

*Ducks flying northward.*—Point Judith, Rhode Island, 20th; Logansport, Indiana, 8th; Toledo, Ohio, 27th; Huron, Dakota, 15th; Alexandria, Dakota, 13th; Edgington, Illinois, 2d, 9th, 12th, 18th; Monticello, Iowa, 17th; Humboldt, Iowa, 13th; Des Moines, Iowa, 25th; Yates Centre, Kansas, 21st, 24th; Fort Scott, Kansas, 1st; Clear Creek, Nebraska, 5th, 22d;

Jacksonburg, Ohio, 30th. *Flying southward.*—Hatteras, North Carolina, 26th; Edgington, Illinois, 24th; Crete, Nebraska, appearing, 30th; Guttenburg, Iowa, appearing, 14th.

*Cranes flying northward.*—Visalia, California, 26th; Humboldt, Iowa, 24th; Clear Creek, Nebraska, Brants flying northward, 3d.

#### NOTES AND EXTRACTS.

The following summary is taken from the "March Report of the Tennessee Weather Service," under direction of Mr. A. J. McWhirter, Commissioner of Agriculture, Statistics and Mines.

Station.	County.	Name of observer.	Mean temperature.	Maximum temperature.	Minimum temperature.	Rainfall.
Flat Creek.....	Bedford.....	Wm. Hart.....	45.2	71	23	4.42
Maryville.....	Blount.....	W. H. Henry.....				4.41
Grief.....	Bradley.....	J. T. Cowden.....				4.53
Caryville.....	Campbell.....	Fletcher Smith.....				5.50
Huntingdon.....	Carroll.....	J. S. Ramsey, M. D.....	45	71	30	3.01
McKenzie.....	Carroll.....	John Brown.....	46	75	12	2.80
Kingston Springs.....	Cheatham.....	W. J. Inman.....				3.22
Beech Grove.....	Coffee.....	B. F. Cheatham.....	47.2	72	24	4.49
Grassy Cove.....	Cumberland.....	Nettie M. Stratton.....	41.3	74	17	2.06
Gadsden.....	Crockett.....	W. T. Moore.....				1.40
Smithville.....	De Kalb.....	E. C. Blum.....	47	70	20	2.70
White Bluff.....	Dickson.....	T. C. Reynolds.....				1.40
Milan.....	Gibson.....	M. D. L. Jordan.....	45	73	18	4.22
Bolivar.....	Hardeman.....	E. P. McNeill.....	48	72	20	5.63
Savannah.....	Hardin.....	H. R. Hinkle.....	42	74	22	3.80
Waverly.....	Humphreys.....	D. V. Owen.....	44	67	18	2.04
Knoxville.....	Knox.....	Prof. J. W. Glen.....				3.48
Howell.....	Lincoln.....	O. R. Hatcher.....				3.90
Hardison's Mills.....	Maury.....	Calvin Hardison.....	48	72	27	2.75
Chickaluck.....	McMinn.....	Jacob Zeigler.....				6.00
McNairy.....	McNairy.....	J. H. Blakely.....	49.2	76	24	3.45
Sailors' Rest.....	Montgomery.....	John Minor.....				3.25
Benton.....	Polk.....	James Hood.....	45	79	19	4.00
Florence Station.....	Rutherford.....	Charles F. Vanderford.....	45	74	24	3.36
Grand View.....	Rhea.....	Hattie B. Stratton.....	51	75	29	0.26
Woodstock.....	Shelby.....	S. Hammontree.....	47	74	22	3.77
Alexandria.....	De Kalb.....	Irenus Beckwith.....	46	65	30	4.80
Covington.....	Tipton.....	T. W. Roane.....	46	70	26	6.01
Manchester.....	Coffee.....	Wiley Hickerson.....	44	69	22	5.00

The following meteorological summary has been forwarded by Mr. S. R. Thompson, Director of the "Nebraska Weather Service."

#### BULLETIN FOR MARCH, 1883.

The month was cold, with rainfall and atmospheric humidity less than usual.

*Rainfall.*—The average by sections was as follows: Southeast, 0.48; southwest, 0.27; northeast, 0.80; northwest, 0.55. Average for entire state 0.60.

*Relative Humidity.*—Omaha, max., 86.1; min., 44.0; mean, 64.1.

North Platte, mean, 64.8.

De Soto, max., 29.32; min., 28.2; mean, 28.79.

College Farm, mean, 69.00.

*Temperature.*—The mean temperature of the air was 35.38. The average of all noon observations was 43.73.

The following were some of the maximum and minimum temperatures: Omaha, max., 71.0°; min., 3.0°. De Soto, max., 69.0°; min., 21.0°. College Farm, max., 71.0°; min., 6.0°. North Platte, max., 71.3°; min., 12.0°.

*Wind.*—Miles travelled, Omaha, 6,465; North Platte, 6,980. Prevailing direction, Omaha, north; North Platte, northwest; College Farm, north. Greatest velocity at Omaha, was 22 miles, north and northwest; at North Platte, 34, west.

*Miscellaneous.*—Larks were seen at Beaver Creek on the 1st, at Sutton on the 6th, at Superior on the 11th, at Minden on the 12th, and at Geneva on the 19th. Blue birds were seen at Crete on the 2d. Robbians are reported on the 1st at Nebraska City, the 7th at Crete, and 12th at Beaver Creek. Wild geese flying south were observed at Crete on the 12th, and at Sutton on the 13th. There was a dust storm at Crete on the 18th. During the middle and latter part of the month, there were several light snowfalls all over the state. The spring is very late, and thus far has proved very unpropitious to the farming interests. Dr. Clark, of Sutton, writes that the spring is more backward than it has been for twelve years.

#### ERRATUM.

On page 48, of the February REVIEW, under the heading "Atmospheric electricity interfering with telegraphic communication, &c.," in the report of Captain Vogelgesang, the aberration of the compass should be 2½ points, instead of 22½ points as published.